

Title (en)

DEVICE FOR LONG-TERM TEMPERATURE MEASUREMENT OF TEMPERATURES ABOVE 200 °C

Title (de)

VORRICHTUNG ZUR LANGZEITTEMPERATURMESSUNG VON TEMPERATUREN OBERHALB VON 200 °C

Title (fr)

DISPOSITIF DE MESURE DE TEMPÉRATURES SUPÉRIEURES À 200 °C À LONG TERME

Publication

**EP 4348200 A1 20240410 (DE)**

Application

**EP 22717342 A 20220408**

Priority

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- AT 2022060109 W 20220408

Abstract (en)

[origin: WO2022246485A1] The invention relates to a device for long-term temperature measurement of temperatures above 200 °C, which comprises a transponder (1) and an antenna connected to the transponder (1) via a coaxial cable (4), the antenna connection (2) of the transponder (1) being connected to the inner conductor (3) of the coaxial conductor (4) and the outer conductor (5) being connected to the ground potential of the transponder (1). In order to design such a device so that, with low component requirements and construction effort, improved transmission conditions are made possible cost-effectively, without the need for elaborate coordination of the components with one another, according to the invention the self-supporting coaxial cable (4) forms a loop antenna (9), the internal conductor (3) of which is connected to the ground potential on the end opposite the transponder (1).

IPC 8 full level

**G01K 1/024** (2021.01); **G01K 11/26** (2006.01); **H01Q 7/04** (2006.01)

CPC (source: AT EP)

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Citation (search report)

See references of WO 2022246485A1

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